



제14-0249호

안 전 인 증 서

CMP Products Limited

Glasshouse Street, St Peters, Newcastle upon Tyne,
NE6 1BE, United Kingdom

위 사업장에서 제조하는 아래의 품목이 「산업안전보건법」 제34조 및 같은 법 시행
규칙 제58조의4제4항에 따른 안전인증 심사 결과 안전·보건기준에 적합하므로 안전인
증표시의 사용을 인증합니다.

품

목

Adaptors

형식 · 모델 / 용량 · 등급 / 인증번호

형식·모델	용량 · 등급	인증번호
737	Metallic : Ex d IIC, Ex e IIC, Ex ta IIIC Non-metallic : Ex e IIC, Ex ta IIIC	14-GA4BO-0249X

인 증 기 준

방호장치 의무안전인증 고시(고용노동부고시 제2013-54호)

인 증 조 건

뒷면 참조

2014 년 06 월 13 일

한국가스안전공사 사장





인 증 조 건

1. 제조공장:

Glasshouse Street, St Peters, Newcastle upon Tyne, NE6 1BE, United Kingdom에 위치한 CMP Products Limited에서 생산한 제품 중 아래 인증범위에 한함.

2. 제품개요

The Type 737 Range of Adaptors are manufactured from metallic or non-metallic material and are used to convert an existing cable entry aperture to another thread form and/or size in an enclosure. They comprise a hollow hexagonal body, partly threaded from both ends, one end having a male thread and the other a female thread. Additionally, they may be used to convert an existing cable entry aperture to a different thread form and/or size. When structured as an adaptor the female thread is larger than the male thread, a maximum of two 'standard' size differences is allowed. The adaptors may also be fitted with an optional O-ring seal.

3. 인증범위:

Typical threadforms:

Table below shows one 'standard' size difference; other combinations are possible as detailed above.

Adaptors	Female	M20×1.5*	M25×1.5	M32×1.5	M40×1.5	M50×1.5	M63×1.5	M75×1.5	M90×2.0	M100×1.5*
	Male	M16×1.5*	M20×1.5	M25×1.5	M32×1.5	M40×1.5	M50×1.5	M63×1.5	M75×2.0	M90×2.0*

i. Those marked * are for metallic sizes, only.

ii. Intermediate sizes of threads within the range above providing the same or greater wall thickness.

4. 안전한 사용을 위한 조건

가. Only one adaptor shall be used per cable entry.

나. The adaptors shall be assembled in such a way that their protrusion from an associated enclosure is not increased.

다. The interfaces between a male thread of an adaptor and an associated enclosure, between a female thread of an adaptor and a cable entry device cannot be defined. Therefore it is the installer's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.

라. Non-metallic adaptors shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -20°C to +60°C. Refer to the manufacturer's instructions for the action necessary regarding electrostatic risk.

마. Any cable gland used with the non-metallic adaptors shall be non-metallic and of the A2 type.

5. 인증(변경)사항

6. 그 밖의 사항

안전인증품의 품질관리, 변경사항 신고 등 인증 받은 자의 의무 준수.



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
5th Floor, A-Block, CGO Complex, Seminary Hills,
Nagpur - 440006

E-mail : explosives@explosives.gov.in

Phone/Fax No : 0712 -2510248, Fax-2510577

Approval No : A/P/HQ/KA/104/5698 (P444949)

Dated : 18/06/2019

To,

M/s. CMP Products Ltd,
Glasshouse Street, St Peters, Newcastle Upon Tyne, England, Tyne and Wear, NE6 1BS, Newcastle Upon Tyne
NE6 1BS
UK

Sub : Approval of Flame Proof, Increased Safety, under Petroleum Rules 2002- Regarding.

Sir(s),

Please refer to your letter No. OIN302580 dated 16/05/2019 on the subject.

The following Ex electrical equipment(s) manufactured by you according to EN 60079-0 : 2006, EN 60079-0 : 2012, EN 60079-0 : 2012/A11 : 2013, EN 60079-1 : 2004, EN 60079-1 : 2007, EN 60079-1 : 2014, EN 60079-31 : 2014, EN 60079-7 : 2007, EN 60079-7 : 2015, standards and covered under Intertek Testing & Certification Limited / Sira Certification Services Test reports mentioned below is/are approved for use in Zone 1, Zone 2 of Gas IIC hazardous areas coming under the the Petroleum Rules, 2002 administered by this Organization.

Sr. No	Description	Safety Protection	Equipment reference Number	Test Agency			Drawing no
				Name	Certificate No.	Certificate Date	
1	Cable Gland Types A**	Ex e IIC Gb / Ex d IIC Gb	P444949/1	Sira Certification Services	Sira 13 ATEX1068X Issue 2	17/12/2014	As Per Test Report
2	Type 737,747, 757,767 and 797 Range of Adaptors, Reducers and Stopping Plugs	Ex e IIC Gb / Ex d IIC Gb (metallic)	P444949/2	Sira Certification Services	SIRA 13ATEX1265X (issue 1)	17/09/2014	As Per Test Report
3	Type 784 , 789, PX784, PX789 Unions	Ex eb IIC Gb / Ex db IIC Gb	P444949/3	Intertek Testing & Certification Limited	ITS 17ATEX102499U	13/04/2018	As Per Test Report
4	Cable Gland Types Triton T3** and TE**	Ex e IIC Gb / Ex d IIC Gb	P444949/4	Sira Certification Services	SIRA 13ATEX1073X (issue 4)	04/02/2016	As Per Test Report
5	Cable Gland Types SS2K**	Ex e IIC Gb / Ex d IIC Gb	P444949/5	Sira Certification Services	SIRA 13ATEX1069X	29/04/2013	As Per Test Report
6	Cable Gland Types C**	Ex e IIC Gb	P444949/6	Sira Certification Services	SIRA 13ATEX1070X	29/04/2013	As Per Test Report
7	Cable Gland Types E**	Ex e IIC Gb / Ex d IIC Gb	P444949/7	Sira Certification Services	SIRA 13ATEX1071X	29/04/2013	As Per Test Report
8	Types PX** Cable Glands	Ex eb IIC Gb / Ex db IIC Gb	P444949/8	Intertek Testing & Certification Limited	ITS 17ATEX102491X	21/03/2018	As Per Test Report
9	Type 777 Range of Insulated Adaptors	Ex e IIC Gb / Ex d IIC Gb	P444949/9	Sira Certification Services	SIRA 10ATEX1057U	28/04/2010	As Per Test Report
10	PXFC and PXFC-LTPB Barrier Gland for Flexible Conduit	Ex e IIC Gb / Ex d IIC Gb	P444949/10	Sira Certification Services	SIRA 10ATEX1172X (issue 2)	17/02/2012	As Per Test Report
11	TMC2 Ranges of Cable Glands	Ex e IIC Gb	P444949/11	Sira Certification Services	SIRA 09ATEX1164X	24/08/2009	As Per Test Report
12	Type 780, PX780 Unions	Ex eb IIC Gb / Ex db IIC Gb	P444949/12	Intertek Testing & Certification Limited	ITS 17ATEX102498X	13/04/2018	As Per Test Report
13	Type 783 Series (Y) shaped and 793 series (T) shaped dual entry Adaptors	Ex eb IIC Gb / Ex db IIC Gb	P444949/13	Sira Certification Services	SIRA 16ATEX1234U (issue 1)	13/12/2016	As Per Test Report
14	TMCX and TMC Ranges of Cable Glands	Ex e IIC Gb (TMC) / Ex d IIC Gb (TMCX)	P444949/14	Sira Certification Services	SIRA 07ATEX1122X (issue 2)	04/12/2017	As Per Test Report
15	TMC2X Ranges of Cable Glands	Ex e IIC Gb / Ex d IIC Gb	P444949/15	Sira Certification Services	SIRA 09ATEX1165X (issue 1)	22/12/2014	As Per Test Report

16	Type TC and TCCG Ranges of Cable Glands	Ex e IIC Gb / Ex d IIC Gb	P444949/16	Sira Certification Services	SIRA 09ATEX1092X (issue 1)	14/12/2010	As Per Test Report
17	Type 781D Breather / Drain Plugs and Type 781E Breather/Drain Plugs	Ex e IIC Gb (781E) / Ex d IIC Gb (781D)	P444949/17	Sira Certification Services	SIRA 10ATEX1307U (issue 02)	19/09/2013	As Per Test Report
18	Type 787 Range of Right Angled Adaptors	Ex e IIC Gb / Ex d IIC Gb	P444949/18	Sira Certification Services	SIRA 14ATEX1033U	20/03/2014	As Per Test Report
19	Types A2F100, RA2F100, A2F100HC, RA2F100HC, A2F100/M, RA2F100/M, A2F100HC/M and RA2F100HC/M Series of Cable Gland	Ex eb IIC Gb / Ex db IIC Gb	P444949/19	Sira Certification Services	SIRA 16ATEX1018 (issue 1)	04/08/2017	As Per Test Report

This Approval is granted subject to observance of the following conditions:-

1) The design and construction of the equipment shall be strictly in accordance with description, condition and drawings as mentioned in the Intertek Testing & Certification Limited / Sira Certification Services Test Reports referred to above.

2) The equipment shall be used only with approved type of accessories and associated apparatus.

3) Each equipment shall be marked either by raised lettering cast integrally or by plate attached permanently to the main structure to indicate conspicuously:-

- Name of the manufacturer
- Name and number by which the equipment is identified.
- Number & date of the test report of the Intertek Testing & Certification Limited / Sira Certification Services applicable to the equipment.
- Equipment reference number of this letter by which use of apparatus is approved.
- Protection level.

4) A certificate to the effect that the equipment has been manufactured strictly in accordance with the drawing referred to in the Intertek Testing & Certification Limited / Sira Certification Services Test report and is identical with the one tested and certified at Intertek Testing & Certification Limited / Sira Certification Services shall be furnished with each equipment.

5) The customer shall be supplied with a copy of this letter, an extract of the conditions and maintenance schedule, if any, recommended by Intertek Testing & Certification Limited / Sira Certification Services in their test reports and copy of instructions booklet detailing operation & maintenance of the equipment so as to maintain its Flame Proof characteristics.

6) The After sales service and maintenance of subject equipment shall be looked after by your representative M/s. British Engines (India) Private Limited, 6A, Attibele Industrial Area, Bengaluru - 562 107 (Karnataka)

Conditions of the Approval:-

Ex e marked Ex electrical equipment shall be used in Zone 2 Area only.

This approval also covers the permissible variations as approved under the Intertek Testing & Certification Limited / Sira Certification Services test reports referred above. This approval is liable to be cancelled if any of the conditions of the approval is violated or not complied with. The approval may also be amended or withdrawn at any time, if considered necessary in the interest of safety.

The field performance report from actual users/your customers of the subject equipment may please be collected and furnished to this office for verification and record on annual basis.

The Approval is Valid upto 31/12/2021



Yours faithfully,

(K Srinivasa Rao)
Controller of Explosives
For Chief Controller of Explosives
Nagpur

for Chief Controller of Explosives
Nagpur

Copy to :

- Jt. Chief Controller of Explosives, South Circle Office, CHENNAI
- M/s. British Engines (India) Private Limited, 6A, Attibele Industrial Area, Bengaluru - 562 107 (Karnataka)

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

Note:- Please submit the revalidation application one month before the date of Expiry of approval otherwise approval will be treated as cancelled and a fresh application for approval will be considered for the approval.



防 爆 合 格 证

证 号: GYJ18.1254U

由 CMP Products Limited

制造的产品:

(地址: Glasshouse Street, St Peters, Newcastle-upon-Tyne, NE6 1BS, UK)

名 称 转换接头

型 号 规 格 737, 797, 787, 780, PX780, 784, PX784, 789, PX789系列

防 爆 标 志 见本证书附件

产 品 标 准 /

图 样 编 号 /

经图样及技术文件的审查和样品检验, 确认上述产品
符合 GB 3836.1-2010、GB 3836.2-2010、GB 3836.3-2010、 标准,
GB 12476.1-2013、GB 12476.5-2013

特颁发此证。

本证书有效期: 2018年5月22日至2023年5月21日

备 注 1. 安全使用注意事项见本证书附件。
2. 产品安全使用特殊条件见本证书附件。

站 长



国家级仪器仪表防爆安全监督检验站
颁发日期二〇一八年五月二十二日

本证书仅对与认可文件和样品一致的产品有效。

国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

(GYJ18.1254U)

(Attachment I)

GYJ18.1254U防爆合格证附件 I

由CMP Products Limited生产的737, 797, 787, 780, PX780, 784, PX784, 789, PX789系列转换接头, 经国家级仪器仪表防爆安全监督检验站(NEPSI)检验, 符合下列防爆标准规定的要求:

GB 3836.1 - 2010 爆炸性环境 第1部分: 设备 通用要求

GB 3836.2 - 2010 爆炸性环境 第2部分: 由隔爆外壳“d”保护的设备

GB 3836.3 - 2010 爆炸性环境 第3部分: 由增安型“e”保护的设备

GB 12476.1 - 2013 可燃性粉尘环境用电气设备 第1部分: 通用要求

GB 12476.5 - 2013 可燃性粉尘环境用电气设备 第5部分: 外壳保护型“tD”

产品防爆合格证号为GYJ18.1254U, 产品防爆标志如下:

Ex d IIC Gb/ Ex e IIC Gb/ Ex tD A20 IP6X (金属材质) 或 Ex e IIC Gb/ Ex tD A20 IP6X (非金属材质)。

产品可选螺纹规格如下:

1. 737, 797系列 (金属材质)

内螺纹	外螺纹
M20×1.5*	M16×1.5*
M25×1.5	M20×1.5
M32×1.5	M25×1.5
M40×1.5	M32×1.5
M50×1.5	M40×1.5
M63×1.5	M50×1.5
M75×1.5	M63×1.5
M90×2.0	M75×1.5
M100×2.0*	M90×2.0*

注: *表示对非金属材质不适用。

内螺纹	外螺纹
M16×1.5	M20×1.5
M20×1.5	M25×1.5
M25×1.5	M32×1.5
M32×1.5	M40×1.5
M40×1.5	M50×1.5
M50×1.5	M63×1.5
M63×1.5	M75×1.5
M75×1.5	M90×2.0
M90×2.0*	M100×2.0*

2. 787系列

M20×1.5 ~ M100×2.0

3. 780, PX780, 784, PX784, 789, PX789系列

M16 ~ M100

除以上所列螺纹规格以外, 还可选用满足ANSI/ASME B1.20.1-1983第8.1条要求的NPT螺纹。

一、产品安全使用特殊条件

产品在使用时具有安全使用特殊条件, 具体内容如下:

1. 现场安装时, 施加在787系列转换接头上的安装扭矩不得超过下表中相应的扭矩值:

外螺纹	扭矩值 (Nm)
M25	53
M32	53
M40	53
M90	166
M100	115
内螺纹	扭矩值 (Nm)
M25	40
M32	40
M50	80
M75	115
M90	115

2. 当选用非金属材质的转换接头时, 须遵守如下注意事项:

i) 选用非金属材质的转换接头时, 应确保其所连接的设备外壳安装点温度在 $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ 范围内。

ii) 与非金属材质的转换接头连接的电缆引入装置必须是非金属材质。

iii) 须采取有效措施防止静电引燃危险。

iv) 转换接头装配完成后, 用户须确保整体外壳防护等级满足要求。

v) 安装时, 应充分旋紧螺纹。

3. 应确保PX780所连接的设备外壳安装点温度在 $-60^{\circ}\text{C} \sim +85^{\circ}\text{C}$ 范围内。

二、产品使用注意事项

1. 用户不得自行更换该产品的零部件, 应会同产品制造商共同解决使用中出现的故障, 以杜绝损坏现象的发生。

2. 产品的安装、使用和维护应同时遵守产品说明书及下列相关标准、规范的要求:

GB 3836.13 - 2013 爆炸性环境 第13部分: 设备的修理、检修、修复和改造

GB 3836.15 - 2000 爆炸性气体环境用电气设备 第15部分: 危险场所电气安装 (煤矿除外)

GB 3836.16 - 2006 爆炸性气体环境用电气设备 第16部分: 电气装置的检查和维护 (煤矿除外)

GB 50257 - 2014 电气装置安装工程爆炸和火灾危险环境 电气装置施工及验收规范

GB 12476.2 - 2010 可燃性粉尘环境用电气设备 第2部分: 选型和安装

GB 15577 - 2007 粉尘防爆安全规程

三、制造厂责任

1. 制造厂必须将上述安全使用特殊条件和使用注意事项纳入产品使用说明书。
2. 制造厂必须严格按照NEPSI认可的文件资料生产。

国家级仪器仪表防爆安全监督检验站

二〇一八年五月二十二日